

Fig. 1 PRIOR ART

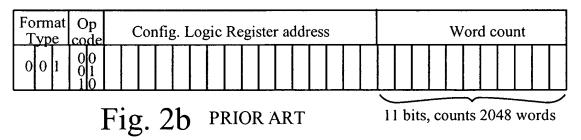
Header A							
Data A							
Header B							
Data 1B							
Data 2B							
Data 3B							
Data 4B							
Header C							
Data 1C							
•							

Bitstream header Config. Logic Reg. address	Config. Logic Register data contents						
0000	Cyclic Redundancy Check (CRC)						
0001	Frame Address						
0010	Frame Data Input						
0011	Frame Data Output						
0100	Command						
0110	Control						
0111	Status						
1000	Daisy Chain Output						
1001	Configuration Option						
1010	Reserved						
1011	Frame Length						
1100	Reserved						
1101	Reserved						
1110	Reserved						
1111	Reserved						

Fig. 2a PRIOR ART

Fig. 2d PRIOR ART

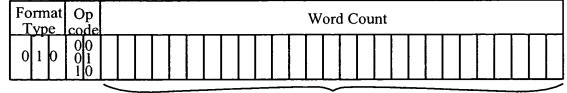
32-bit Command Header Format 1



32-bit Command Header Format 1

1 ~ 1 1	mat Op code Config. Logic Register Address							Word Count								nt						
$\begin{array}{c c} 0 & 1 & 0 \\ 0 & 1 & 0 \\ 1 & 0 \end{array}$												0	0	0	0	0	0	0	0	0	0	0
																				_		1

32-bit Command Header Format 2



27 bits, counts 2.68 million words or 10 megabytes

Fig. 2c PRIOR ART

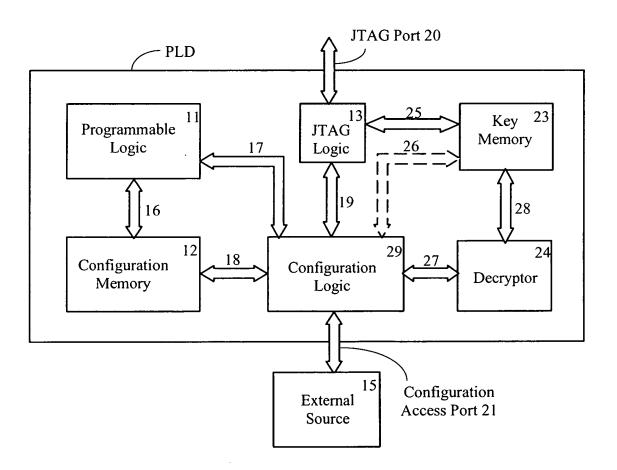


Fig. 3

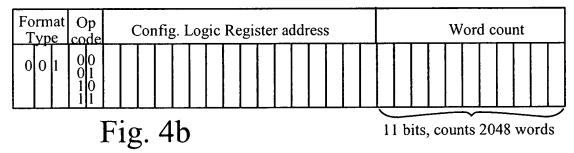
Header A							
Data A							
Header B							
Data B							
Header C							
Data C							
Header D							
Data 1D							
Data 2D							
Data 3D							

Bitstream header						
Config. Logic Reg.	Config. Logic Register					
address	data contents					
address						
0000	Cyclic Redundancy Check (CRC)					
0001	Frame Address					
0010	Frame Data Input					
0011	Frame Data Output					
0100	Command					
0110	Control					
0111	Status					
1000	Daisy Chain Output					
1001	Configuration Option					
1010	Reserved					
1011	Frame Length					
1100	Cipher block chaining(CBC) starter					
1101	Initial key address					
1110	Reserved					
1111	Reserved					

Fig. 4a

Fig. 4d

32-bit Command Header Format 1



32-bit Command Header Format 1

Format Op Type code	Config. Logic Register Address	Word Count
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

32-bit Command Header Format 2

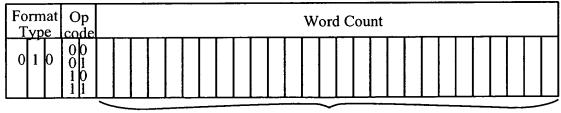


Fig. 4c

27 bits, counts 2.68 million words or 10 megabytes

UNENCRYPTED VERSION

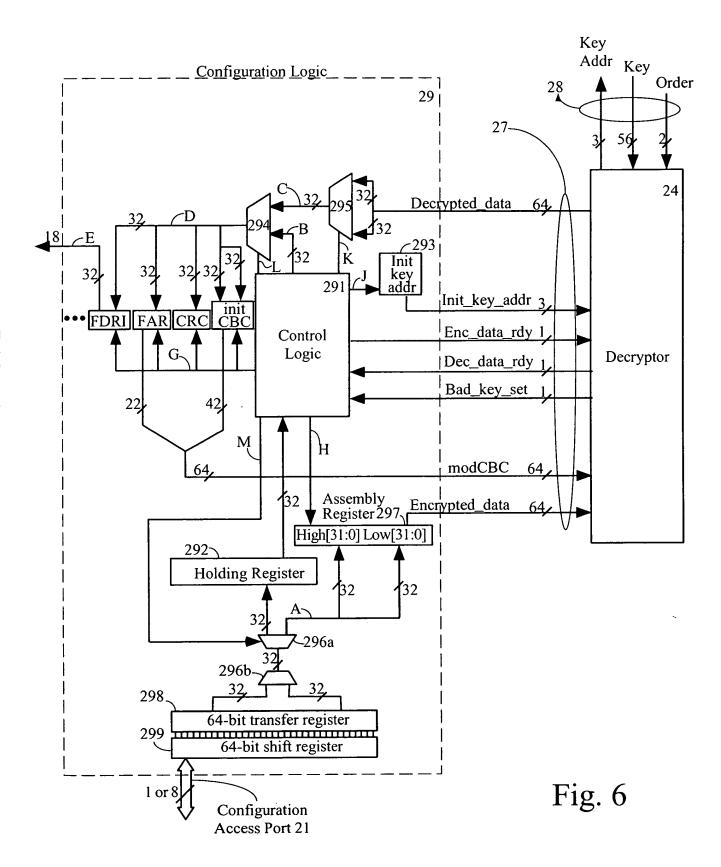
Sync word 10101010100110010101010101100110 RCRC command 000000000000000000000000000111 Type 1 write 1 words to FLR 001100000000001011000000000001 data word 0 0000000000000000000000000011001 Type 1 write 1 words to COR 0011000000000010010000000000001 data word 0 000000000000111111111111000001 Type 1 write 1 words to ID 001100000000001110000000000001 data word 0 0000000100000001000000010010011 Type 1 write 1 words to MASK 001100000000000110000000000001 Type 1 write 1 words to FAR 0011000000000000010000000000001 Type 1 write 1 words to CMD 0011000000000001000000000000001 Type 2 write 10530 words to FDRI 010100000000000001010010010010 data word 3 00001000000000111111111111111100

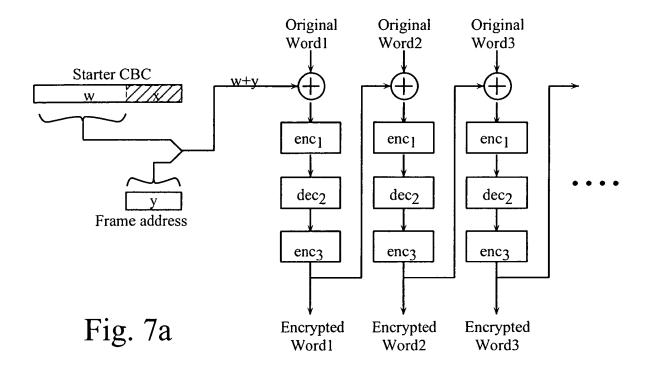
Fig. 5a

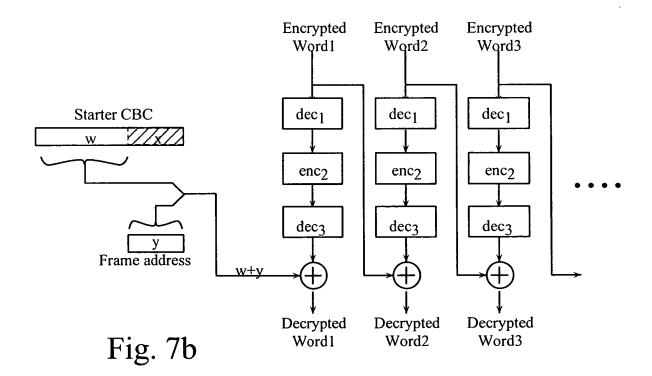
ENCRYPTED VERSION

```
Sync word 10101010100110010101010101100110
 RCRC command 000000000000000000000000000111
 Type 1 write 1 words to FLR 001100000000001011000000000001
           data word 0 00000000000000000000000000011001
 Type 1 write 1 words to COR 001100000000010010000000000001
           data word 0 000000000000011111111111000001
 Type 1 write 1 words to ID
                   001100000000001110000000000001
           data word 0 000000010000000100000001001011
 Type 1 write 1 words to MASK 00110000000000110000000000001
           Type 1 write 1 words to FAR 001100000000000001000000000001
           Type 1 write 1 words to CMD 0011000000000001000000000000001
           Type 1 write 1 word to KEY ADDR 00110000000001100000000000001
           Type 1 write 2 words to CBC 001100000000001101000000000010
           data word 0 10010000101010111100110111101111
           data word 1 000100100011010001010111001111000
Type 2 dec 10530 words to FDRI 010110000000000001010010010010
           data word 0 0001010111011011001100101001000
           data word 1 111000001110001101111111101100111
           data word 2 10101010011111011110001100110011
           data word 3 0110000110101110000101101010100
         data word 10526 01011001101111101100010101001010
         data word 10527 00101001010111111101011110110000
         data word 10528 11000000001010100110011000101010
         data word 10529 01111111111001000001100011100010
          Auto CRC word 0000000000000001011111011001010
 LFRM command 0000000000000000000000000000011
           Type 1 write 1 words to COR 00110000000001001000000000001
           data word 0 000000000000011111111111000001
 Type 1 write 1 words to CTL 00110000000000101000000000001
           data word 0 000000000000000000101111001111
 DESYNCH command 000000000000000000000000001101
```

Fig. 5b







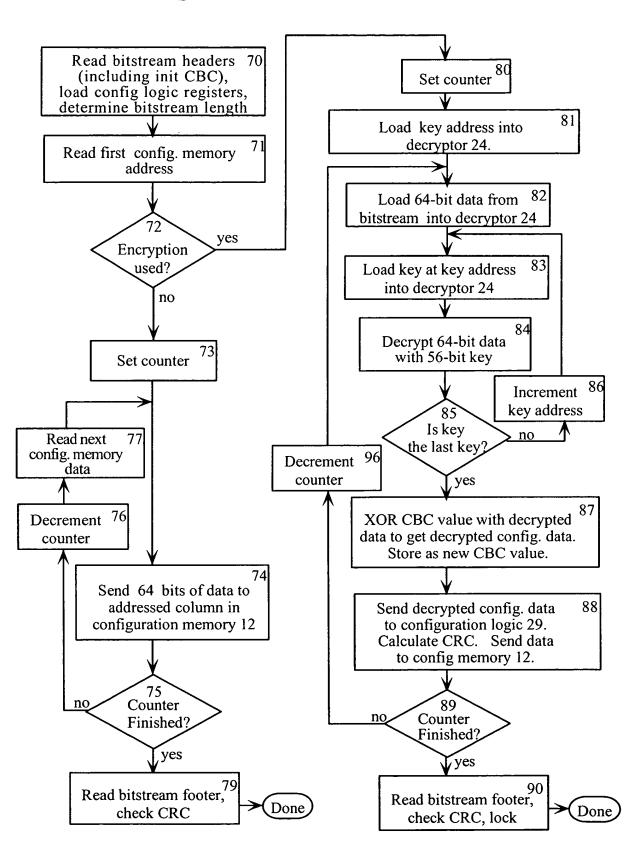


Fig. 8

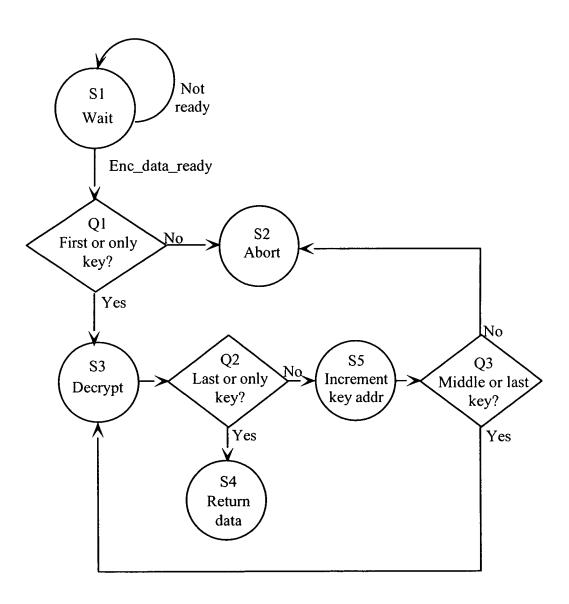
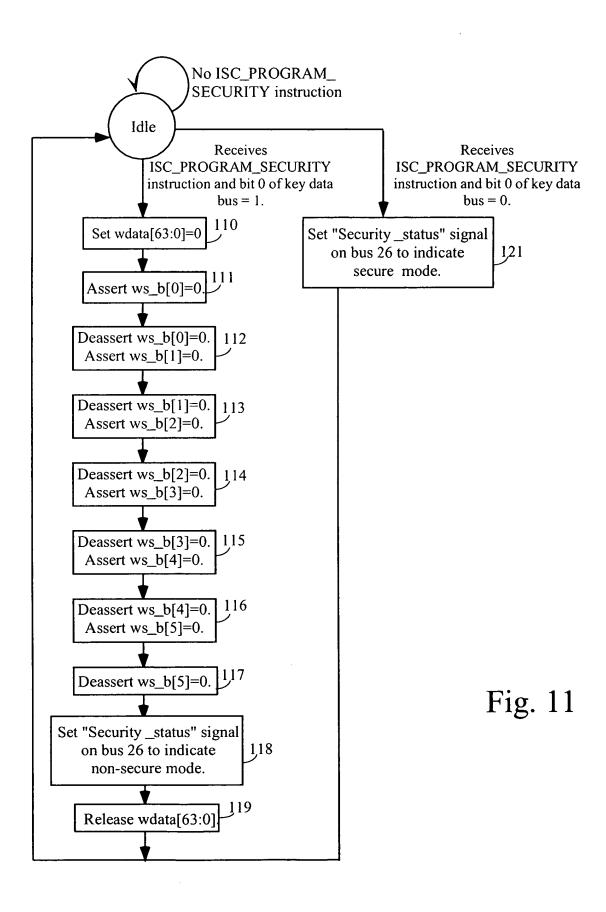


Fig. 9



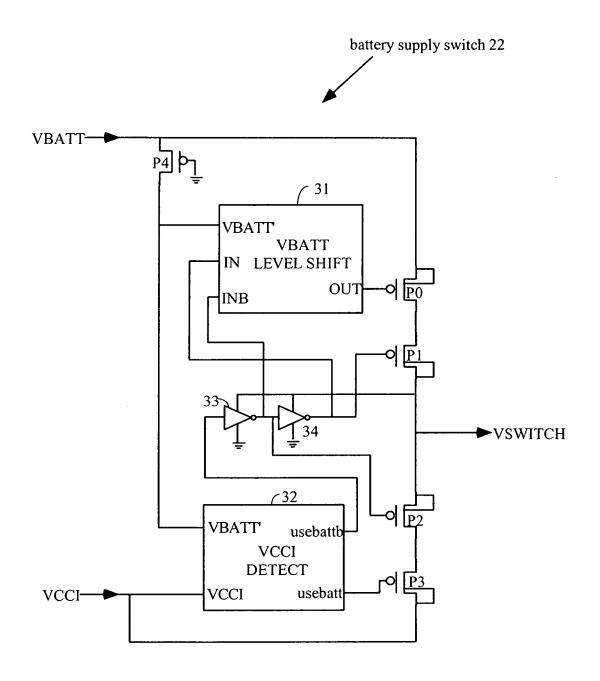
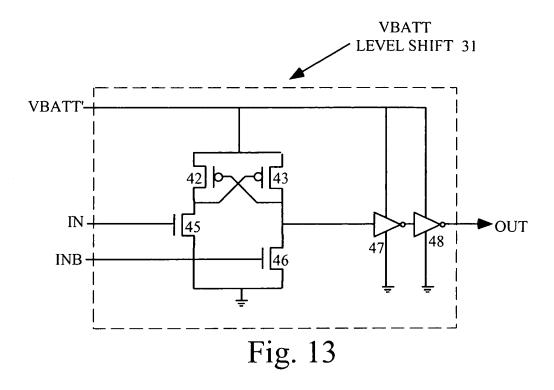
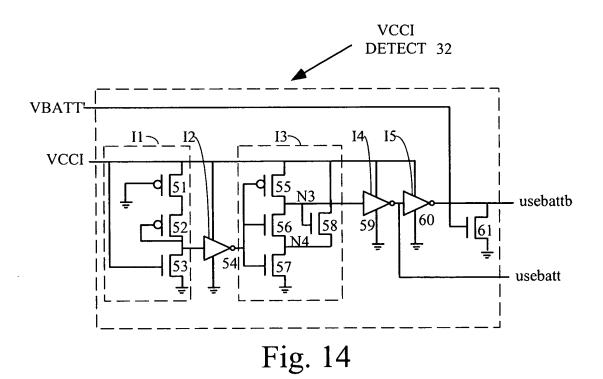


Fig. 12





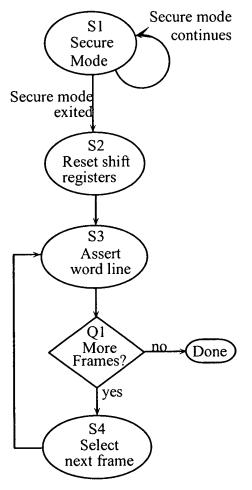


Fig. 15

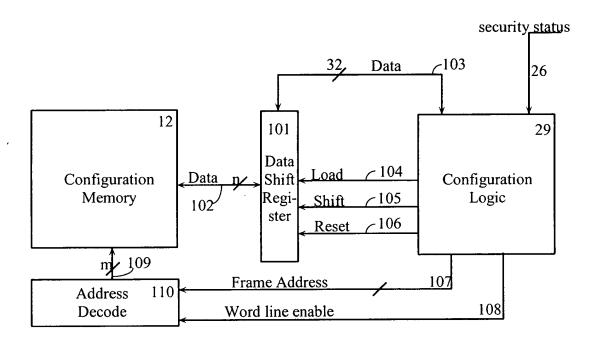


Fig. 16